

Title (en)
MANUFACTURING METHOD FOR HYDROFLUOROOLEFIN OR FLUOROOLEFIN

Title (de)
VERFAHREN ZUR HERSTELLUNG VON HYDROFLUOROOLEFIN ODER FLUOROOLEFIN

Title (fr)
PROCÉDÉ DE FABRICATION D'HYDROFLUOROLÉFINE OU DE FLUOROLÉFINE

Publication
EP 4112593 A4 20240327 (EN)

Application
EP 21761593 A 20210224

Priority
• JP 2020033376 A 20200228
• JP 2021006729 W 20210224

Abstract (en)
[origin: EP4112593A1] This disclosure provides a method for producing a hydrofluoroolefin (HFO) or fluoroolefin (FO), which is a target compound, with high selectivity, without requiring a high temperature and a catalyst in a synthesis process of the target compound. Specifically, the present disclosure provides a method for producing a hydrofluoroolefin or fluoroolefin having two, three, or four carbon atoms, comprising irradiating at least one starting material compound selected from the group consisting of hydrofluorocarbons having one or two carbon atoms and hydrofluoroolefin As having two or three carbon atoms with ionizing radiation and/or an ultraviolet ray having a wavelength of 300 nm or less, with the proviso that when the at least one starting material compound is the hydrofluoroolefin A, the resulting hydrofluoroolefin is different from the hydrofluoroolefin A.

IPC 8 full level
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C-Set (source: EP)
1. **C07C 17/269** + **C07C 21/18**
2. **C07C 17/361** + **C07C 21/18**

Citation (search report)
• [A] US 3046304 A 19620724 - NEVILLE HASZELDINE ROBERT
• [IA] WO 2016163522 A1 20161013 - ASAHI GLASS CO LTD [JP]
• See also references of WO 2021172305A1

Designated contracting state (EPC)
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EP 21761593 A 20210224; CN 202180016618 A 20210224; JP 2020033376 A 20200228; JP 2021006729 W 20210224; JP 2021164992 A 20211006; KR 20227033156 A 20210224; TW 110106999 A 20210226; US 202217895529 A 20220825